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1233 Silas Deane Highway | Wethersfield, Connecticut 06109 | Telephone 860-665-1140 | Fax 860-665-9445 | www.ensafe.com

Via email to Jeffrey.dyber@dec.ny.gov

February 9, 2018

Mr. Jeffrey Dyber, P.E.
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: January 2018
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe Inc. is pleased to submit this revised Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in January 2018.

Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M) (OU1)

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**). The air compressor was repaired on January 12, 2018.
 - The SVE transfer pump failed this month, causing high levels in the moisture separator which led to system downtime. The SVE transfer pump is scheduled to be replaced along with the semiannual compressor service, on February 9, 2018.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on February 1, 2018, using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in **Appendix B**.
 - Influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction.
 - Due to effluent concentrations exhibiting breakthrough (December/November PID readings and November analytical data), a carbon exchange was performed on January 8, 2018.

| Frost Street Sites Effluent Compliance | | | |
|---|---------------------------------------|--|--|
| System Flow Rate = | 800 ft ³ /m | | |
| Compound | Annual Mass Emission Limit (lbs/year) | Allowable Continuous Annual Concentration (µg/m ³) | January 2018 Effluent Concentration (µg/m ³) |
| Trichloroethene | 500 | 19,000 | ND |
| Tetrachloroethene | 1,000 | 38,000 | ND |
| Vinyl Chloride | 100 | 3,800 | ND |
| Cis-1,2-Dichloroethene | 100 | 3,800 | ND |

Notes:

Source of Mass Emission Limit: Part 212-2.2 Table 2 - High Toxicity Air Contaminant List

Cis-1,2-dichloroethene is not a listed HTAC, so the default is 100 lbs/year.

These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.

- On January 17, 2018, approximately 500 gallons of system condensate water was discharged from the holding tank to the sewer via the onsite connection. All water is treated via activated carbon adsorption prior to discharge. Groundwater concentrations did not exceed applicable permit limits, as shown in **Appendix C**. An additional discharge of 250 gallons occurred on January 24, 2018.

Groundwater Extraction/Hydraulic Containment System Installation (OU2)

- Removal of sediment from the extraction wells and select monitoring wells was performed the week of January 2, 2018 and the pumps were installed in the shallow wells on January 12, 2018, as described in the attached daily reports (**Appendix D**) .
- The Frost Street Parties are awaiting NYSDEC response to a letter submitted on February 5, 2018, regarding the scope of the pumping test. Once resolution is reached on the scope of the revised pumping test, system startup and the pumping test can begin in three weeks. A schedule showing this and the subsequent activities is included as **Appendix E**; the schedule assumes resolution will be reached on March 1, 2018 and presents the duration of the proposed modified pumping test.

Quarterly/Annual Groundwater Monitoring

- The fourth quarter 2017 groundwater sampling event was completed the week of December 18, 2017, results will be submitted in a forthcoming report, when available.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

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Appendix A
SVE/AS System O&M Logs

Operation & Maintenance Data Sheet
EnSafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 5-Jan
Weather / Temp: Clear / 16 DEG
Technician / Operator: DW

Arrival Time: 12:00
Departure Time: 13:00

| System Status | | | | | | | |
|---|-----------------|-----------|--|---------------------------------|-----------|--|--|
| | Arrival | Departure | | Arrival | Departure | | |
| SVE Blower 1 (ON/OFF) | ON | ON | Sensaphone (ON/OFF) | ON | ON | | |
| SVE Blower 2 (ON/OFF) | OFF | OFF | Surge Protection (ON/OFF) | ON | ON | | |
| AS Compressor 1 (ON/OFF) | OFF | OFF | Lightning Protection (White/Black) | White | White | | |
| AS Compressor 2 (ON/OFF) | OFF | OFF | | | | | |
| Soil Vapor Extraction System | | | | | | | |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 3200 | 628 | Blower 1 Total Runtime (hrs) | 49,208.8 | | | |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 49,039.5 | | | |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 | | | |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 | | | |
| VGAC-1 Influent Vacuum ("H2O) | 64 | | VGAC-1 Influent PID (ppm) | 6.8 | | | |
| VGAC-1 Effluent Vacuum ("H2O) | 56 | | VGAC-1 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Vacuum ("H2O) | 54 | | VGAC-2 Influent PID (ppm) | 0.2 | | | |
| VGAC-2 Effluent Vacuum ("H2O) | 54 | | VGAC-2 Effluent PID (ppm) | 0.0 | | | |
| VGAC-3 Influent Pressure ("H2O) | 6 | | VGAC-3 Influent PID (ppm) | 0.0 | | | |
| VGAC-3 Effluent Pressure ("H2O) | 3 | | VGAC-3 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Temp (DegF) | 106 | | Blower Effluent PID (ppm) | 0.0 | | | |
| Blower Effluent Pressure ("H2O) | 10 | | | | | | |
| Transfer Pump Total Runtime (hrs) | 25,026.8 | | Condensate Storage Tank Level (gal) | 250 | | | |
| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | |
| | Vacuum | Velocity | Flow Rate | PID | | | |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 6500 | 142 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 34 | | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | 3500 | 76 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 34 | | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 36 | 3600 | 79 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 34 | | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 36 | 4400 | 96 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 34 | | |
| Air Sparge System | | | | | | | |
| Compressor 1 Pressure (psi) | Off for repairs | | Compressor 2 Pressure (psi) | Off for repairs | | | |
| Compressor 1 Temperature (degF) | Off for repairs | | Compressor 2 Temperature (degF) | Off for repairs | | | |
| Compressor 1 Runtime (hrs) | 27,317 | | Compressor 2 Runtime (hrs) | 25,116 | | | |
| Manifold Regulator Pressure (psi) | | | | | | | |
| AS Manifold Legs - Pressure/Flow Rate | | | | | | | |
| | Pressure | Flow Rate | | Pressure | Flow Rate | | |
| AS-1 (psi)/(cfm) | | | | AS-11 (psi)/(cfm) | | | |
| AS-2 (psi)/(cfm) | | | | AS-12B (psi)/(cfm) | | | |
| AS-3 (psi)/(cfm) | | | | AS-13B (psi)/(cfm) | | | |
| AS-4 (psi)/(cfm) | | | | AS-14 (psi)/(cfm) | | | |
| AS-5 (psi)/(cfm) | | | | AS-15 (psi)/(cfm) | | | |
| AS-6 (psi)/(cfm) | | | | AS-16B (psi)/(cfm) | | | |
| AS-7 (psi)/(cfm) | | | | AS-17 (psi)/(cfm) | | | |
| AS-8 (psi)/(cfm) | | | | AS-18 (psi)/(cfm) | | | |
| AS-9 (psi)/(cfm) | | | | AS-19 (psi)/(cfm) | | | |
| AS-10B (psi)/(cfm) | | | | | | | |

Notes, Comments & Observations: _____

Operation & Maintenance Data Sheet
EnSafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 8-Jan
Weather / Temp: Clear / 18 DEG
Technician / Operator: DW

Arrival Time: 7:00
Departure Time: 13:30

| System Status | | | | | | | |
|---|-----------------|-----------|--|---------------------------------|-----------|--|--|
| | Arrival | Departure | | Arrival | Departure | | |
| SVE Blower 1 (ON/OFF) | ON | ON | Sensaphone (ON/OFF) | ON | ON | | |
| SVE Blower 2 (ON/OFF) | OFF | OFF | Surge Protection (ON/OFF) | ON | ON | | |
| AS Compressor 1 (ON/OFF) | OFF | OFF | Lightning Protection (White/Black) | White | White | | |
| AS Compressor 2 (ON/OFF) | OFF | OFF | | | | | |
| Soil Vapor Extraction System | | | | | | | |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4500 | 884 | Blower 1 Total Runtime (hrs) | 49,245.0 | | | |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 49,075.5 | | | |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 | | | |
| Moisture Separator Vacuum ("Hg) | 4 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 | | | |
| VGAC-1 Influent Vacuum ("H2O) | 74 | | VGAC-1 Influent PID (ppm) | 0.0 | | | |
| VGAC-1 Effluent Vacuum ("H2O) | 78 | | VGAC-1 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Vacuum ("H2O) | 74 | | VGAC-2 Influent PID (ppm) | 0.0 | | | |
| VGAC-2 Effluent Vacuum ("H2O) | 84 | | VGAC-2 Effluent PID (ppm) | 0.0 | | | |
| VGAC-3 Influent Pressure ("H2O) | 6 | | VGAC-3 Influent PID (ppm) | 0.0 | | | |
| VGAC-3 Effluent Pressure ("H2O) | 3 | | VGAC-3 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Temp (DegF) | 110 | | Blower Effluent PID (ppm) | 0.0 | | | |
| Blower Effluent Pressure ("H2O) | 17 | | | | | | |
| Transfer Pump Total Runtime (hrs) | 25,027.0 | | Condensate Storage Tank Level (gal) | 250 | | | |
| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | |
| | Vacuum | Velocity | Flow Rate | PID | | | |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 50 | 7500 | 164 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 52 | 4500 | 98 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 44 | | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 44 | 5000 | 109 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 42 | | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 42 | 4200 | 92 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 44 | | |
| Air Sparge System | | | | | | | |
| Compressor 1 Pressure (psi) | Off for repairs | | Compressor 2 Pressure (psi) | Off for repairs | | | |
| Compressor 1 Temperature (degF) | Off for repairs | | Compressor 2 Temperature (degF) | Off for repairs | | | |
| Compressor 1 Runtime (hrs) | 27,317 | | Compressor 2 Runtime (hrs) | 25,116 | | | |
| Manifold Regulator Pressure (psi) | | | | | | | |
| AS Manifold Legs - Pressure/Flow Rate | | | | | | | |
| | Pressure | Flow Rate | | Pressure | Flow Rate | | |
| AS-1 (psi)/(cfm) | | | | AS-11 (psi)/(cfm) | | | |
| AS-2 (psi)/(cfm) | | | | AS-12B (psi)/(cfm) | | | |
| AS-3 (psi)/(cfm) | | | | AS-13B (psi)/(cfm) | | | |
| AS-4 (psi)/(cfm) | | | | AS-14 (psi)/(cfm) | | | |
| AS-5 (psi)/(cfm) | | | | AS-15 (psi)/(cfm) | | | |
| AS-6 (psi)/(cfm) | | | | AS-16B (psi)/(cfm) | | | |
| AS-7 (psi)/(cfm) | | | | AS-17 (psi)/(cfm) | | | |
| AS-8 (psi)/(cfm) | | | | AS-18 (psi)/(cfm) | | | |
| AS-9 (psi)/(cfm) | | | | AS-19 (psi)/(cfm) | | | |
| AS-10B (psi)/(cfm) | | | | | | | |

Notes, Comments & Observations: _____

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 17-Jan
Weather / Temp: Snow / 30 DEG
Technician / Operator: MA, JL

Arrival Time: 12:40
Departure Time: 13:30

| System Status | | | | | | | |
|---|-----------------|-----------|--|---------------------------------|-----------|--|--|
| | Arrival | Departure | | Arrival | Departure | | |
| SVE Blower 1 (ON/OFF) | ON | ON | Sensaphone (ON/OFF) | ON | ON | | |
| SVE Blower 2 (ON/OFF) | OFF | OFF | Surge Protection (ON/OFF) | ON | ON | | |
| AS Compressor 1 (ON/OFF) | OFF | OFF | Lightning Protection (White/Black) | White | White | | |
| AS Compressor 2 (ON/OFF) | ON | ON | | | | | |
| Soil Vapor Extraction System | | | | | | | |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4500 | 884 | Blower 1 Total Runtime (hrs) | 49,354.0 | | | |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 49,181.0 | | | |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 | | | |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 | | | |
| VGAC-1 Influent Vacuum ("H2O) | 72 | | VGAC-1 Influent PID (ppm) | 0.2 | | | |
| VGAC-1 Effluent Vacuum ("H2O) | 70 | | VGAC-1 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Vacuum ("H2O) | 84 | | VGAC-2 Influent PID (ppm) | 0.2 | | | |
| VGAC-2 Effluent Vacuum ("H2O) | 84 | | VGAC-2 Effluent PID (ppm) | 0.0 | | | |
| VGAC-3 Influent Pressure ("H2O) | 7.2 | | VGAC-3 Influent PID (ppm) | 0.0 | | | |
| VGAC-3 Effluent Pressure ("H2O) | 2.3 | | VGAC-3 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Temp (DegF) | 128 | | Blower Effluent PID (ppm) | 0.0 | | | |
| Blower Effluent Pressure ("H2O) | 20 | | | | | | |
| Transfer Pump Total Runtime (hrs) | 25,027.6 | | Condensate Storage Tank Level (gal) | 500 → 0 | | | |
| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | |
| | Vacuum | Velocity | Flow Rate | PID | | | |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 48 | 7500 | 164 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 50 | 4250 | 93 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | 5000 | 109 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 40 | | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 42 | 4000 | 87 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 44 | | |
| Air Sparge System | | | | | | | |
| Compressor 1 Pressure (psi) | Off for repairs | | Compressor 2 Pressure (psi) | | | | |
| Compressor 1 Temperature (degF) | Off for repairs | | Compressor 2 Temperature (degF) | | | | |
| Compressor 1 Runtime (hrs) | 27,317 | | Compressor 2 Runtime (hrs) | 25,120 | | | |
| Manifold Regulator Pressure (psi) | | | | | | | |
| AS Manifold Legs - Pressure/Flow Rate | | | | | | | |
| | Pressure | Flow Rate | | Pressure | Flow Rate | | |
| AS-1 (psi)/(cfm) | 18.5 | 8 | AS-11 (psi)/(cfm) | 17.5 | 12 | | |
| AS-2 (psi)/(cfm) | 17 | 11 | AS-12B (psi)/(cfm) | 18 | 8 | | |
| AS-3 (psi)/(cfm) | 16.5 | 10 | AS-13B (psi)/(cfm) | 15.5 | 8 | | |
| AS-4 (psi)/(cfm) | 15 | 6 | AS-14 (psi)/(cfm) | 16.5 | 9 | | |
| AS-5 (psi)/(cfm) | 18 | 14 | AS-15 (psi)/(cfm) | 16.5 | 10 | | |
| AS-6 (psi)/(cfm) | 18 | 11 | AS-16B (psi)/(cfm) | 15.5 | 10 | | |
| AS-7 (psi)/(cfm) | 18 | 11 | AS-17 (psi)/(cfm) | 17 | 4.5 | | |
| AS-8 (psi)/(cfm) | 18 | 11 | AS-18 (psi)/(cfm) | 15 | 11 | | |
| AS-9 (psi)/(cfm) | 17.5 | 16 | AS-19 (psi)/(cfm) | 16.5 | 15 | | |
| AS-10B (psi)/(cfm) | 16 | 8 | | | | | |

Notes, Comments & Observations: _____

Collected water sample, drained tank.

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 24-Jan
Weather / Temp: Clear / 45 DEG
Technician / Operator: JL

Arrival Time: 14:00
Departure Time: 15:00

| System Status | | | | | | | |
|---|-----------------|-----------|--|---------------------------------|-----------|--|--|
| | Arrival | Departure | | Arrival | Departure | | |
| SVE Blower 1 (ON/OFF) | ON | ON | Sensaphone (ON/OFF) | ON | ON | | |
| SVE Blower 2 (ON/OFF) | OFF | OFF | Surge Protection (ON/OFF) | ON | ON | | |
| AS Compressor 1 (ON/OFF) | OFF | OFF | Lightning Protection (White/Black) | White | White | | |
| AS Compressor 2 (ON/OFF) | OFF | ON | | | | | |
| Soil Vapor Extraction System | | | | | | | |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4200 | 825 | Blower 1 Total Runtime (hrs) | 49,438.8 | | | |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 49,262.0 | | | |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 | | | |
| Moisture Separator Vacuum ("Hg) | 3.5 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 | | | |
| VGAC-1 Influent Vacuum ("H2O) | 70 | | VGAC-1 Influent PID (ppm) | 0.0 | | | |
| VGAC-1 Effluent Vacuum ("H2O) | 72 | | VGAC-1 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Vacuum ("H2O) | 70 | | VGAC-2 Influent PID (ppm) | 0.0 | | | |
| VGAC-2 Effluent Vacuum ("H2O) | 80 | | VGAC-2 Effluent PID (ppm) | 0.0 | | | |
| VGAC-3 Influent Pressure ("H2O) | 9.9 | | VGAC-3 Influent PID (ppm) | 0.0 | | | |
| VGAC-3 Effluent Pressure ("H2O) | 2.5 | | VGAC-3 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Temp (DegF) | 126 | | Blower Effluent PID (ppm) | 0.0 | | | |
| Blower Effluent Pressure ("H2O) | 20 | | | | | | |
| Transfer Pump Total Runtime (hrs) | 25,027.6 | | Condensate Storage Tank Level (gal) | 250 | | | |
| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | |
| | Vacuum | Velocity | Flow Rate | PID | | | |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 46 | 7100 | 155 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 48 | 4000 | 87 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 4600 | 100 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 38 | | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 4000 | 87 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 42 | | |
| Air Sparge System | | | | | | | |
| Compressor 1 Pressure (psi) | Off for repairs | | Compressor 2 Pressure (psi) | | | | |
| Compressor 1 Temperature (degF) | Off for repairs | | Compressor 2 Temperature (degF) | | | | |
| Compressor 1 Runtime (hrs) | 27,317 | | Compressor 2 Runtime (hrs) | 25,123 | | | |
| Manifold Regulator Pressure (psi) | | | | | | | |
| AS Manifold Legs - Pressure/Flow Rate | | | | | | | |
| | Pressure | Flow Rate | | Pressure | Flow Rate | | |
| AS-1 (psi)/(cfm) | 15 | 6 | AS-11 (psi)/(cfm) | 15 | 5 | | |
| AS-2 (psi)/(cfm) | 14 | 5 | AS-12B (psi)/(cfm) | 15 | 5 | | |
| AS-3 (psi)/(cfm) | 13 | 5 | AS-13B (psi)/(cfm) | 13 | 5 | | |
| AS-4 (psi)/(cfm) | 13 | 5 | AS-14 (psi)/(cfm) | 15 | 6 | | |
| AS-5 (psi)/(cfm) | 15 | 6 | AS-15 (psi)/(cfm) | 15 | 5 | | |
| AS-6 (psi)/(cfm) | 15 | 5 | AS-16B (psi)/(cfm) | 13.5 | 5 | | |
| AS-7 (psi)/(cfm) | 15 | 6 | AS-17 (psi)/(cfm) | 16 | 5 | | |
| AS-8 (psi)/(cfm) | 15 | 5 | AS-18 (psi)/(cfm) | 14 | 5 | | |
| AS-9 (psi)/(cfm) | 15 | 5 | AS-19 (psi)/(cfm) | 15.5 | 8 | | |
| AS-10B (psi)/(cfm) | 13.5 | 5 | | | | | |

Notes, Comments & Observations: _____

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 31-Jan
Weather / Temp: Clear / 30 DEG
Technician / Operator: JW

Arrival Time: 14:00
Departure Time: 16:00

| System Status | | | | | | | |
|---|-----------------|-----------|--|--------------------|---------------------------------|--|--|
| | Arrival | Departure | | Arrival | Departure | | |
| SVE Blower 1 (ON/OFF) | OFF | ON | Sensaphone (ON/OFF) | ON | ON | | |
| SVE Blower 2 (ON/OFF) | OFF | OFF | Surge Protection (ON/OFF) | ON | ON | | |
| AS Compressor 1 (ON/OFF) | OFF | OFF | Lightning Protection (White/Black) | White | White | | |
| AS Compressor 2 (ON/OFF) | OFF | ON | | | | | |
| Soil Vapor Extraction System | | | | | | | |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4200 | 825 | Blower 1 Total Runtime (hrs) | 49,450.9 | | | |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 49,268.6 | | | |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 | | | |
| Moisture Separator Vacuum ("Hg) | 3.5 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 | | | |
| VGAC-1 Influent Vacuum ("H2O) | 74 | | VGAC-1 Influent PID (ppm) | 0.0 | | | |
| VGAC-1 Effluent Vacuum ("H2O) | 78 | | VGAC-1 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Vacuum ("H2O) | 74 | | VGAC-2 Influent PID (ppm) | 0.0 | | | |
| VGAC-2 Effluent Vacuum ("H2O) | 84 | | VGAC-2 Effluent PID (ppm) | 0.0 | | | |
| VGAC-3 Influent Pressure ("H2O) | 6 | | VGAC-3 Influent PID (ppm) | 0.0 | | | |
| VGAC-3 Effluent Pressure ("H2O) | 3 | | VGAC-3 Effluent PID (ppm) | 0.0 | | | |
| VGAC-2 Influent Temp (DegF) | 100 | | Blower Effluent PID (ppm) | 0.0 | | | |
| Blower Effluent Pressure ("H2O) | 15 | | | | | | |
| Transfer Pump Total Runtime (hrs) | 25,029.2 | | Condensate Storage Tank Level (gal) | 0 | | | |
| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | |
| | Vacuum | Velocity | Flow Rate | PID | | | |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 50 | 7500 | 164 | 0.0 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 52 | 4500 | 98 | 0.0 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 44 | 5000 | 109 | 0.0 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 42 | 4200 | 92 | 0.0 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | | |
| Air Sparge System | | | | | | | |
| Compressor 1 Pressure (psi) | Off for repairs | | Compressor 2 Pressure (psi) | | | | |
| Compressor 1 Temperature (degF) | Off for repairs | | Compressor 2 Temperature (degF) | | | | |
| Compressor 1 Runtime (hrs) | 27,317 | | Compressor 2 Runtime (hrs) | 25,127 | | | |
| Manifold Regulator Pressure (psi) | | | | | | | |
| AS Manifold Legs - Pressure/Flow Rate | | | | | | | |
| | Pressure | Flow Rate | | Pressure | Flow Rate | | |
| AS-1 (psi)/(cfm) | 18 | 6 | | AS-11 (psi)/(cfm) | 16 | | |
| AS-2 (psi)/(cfm) | 16 | 4 | | AS-12B (psi)/(cfm) | 16 | | |
| AS-3 (psi)/(cfm) | 16 | 8 | | AS-13B (psi)/(cfm) | 15 | | |
| AS-4 (psi)/(cfm) | 15 | 4 | | AS-14 (psi)/(cfm) | 15 | | |
| AS-5 (psi)/(cfm) | 17 | 10 | | AS-15 (psi)/(cfm) | 15 | | |
| AS-6 (psi)/(cfm) | 17 | 7 | | AS-16B (psi)/(cfm) | 15 | | |
| AS-7 (psi)/(cfm) | 17 | 7 | | AS-17 (psi)/(cfm) | 16 | | |
| AS-8 (psi)/(cfm) | 17 | 8 | | AS-18 (psi)/(cfm) | 15 | | |
| AS-9 (psi)/(cfm) | 17 | 12 | | AS-19 (psi)/(cfm) | 15 | | |
| AS-10B (psi)/(cfm) | 15 | 6 | | | 9 | | |

Notes, Comments & Observations:

System off upon arrival due to high level in moisture separator. Transfer pump not working properly.

Collected monthly air samples.

Appendix B
SVE System Influent/Effluent Sampling (TO-15)
Laboratory Analytical Results



Wednesday, February 07, 2018

Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Project ID: ENSAFE-WESTBURY
Sample ID#s: BZ84200 - BZ84201

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2018

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information

Matrix: AIR
Location Code: ENVIROTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 722
Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Custody Information

Collected by: JW
Received by: SW
Analyzed by: see "By" below

Date

Time

02/01/18 15:59

02/02/18 16:39

SDG ID: GBZ84200

Phoenix ID: BZ84200

Laboratory Data

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution |
|-------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| Volatiles (TO15) | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,1,1-Trichloroethane | 0.428 | 0.183 | 2.33 | 1.00 | 02/03/18 | KCA | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,1,2-Trichloroethane | ND | 0.183 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,1-Dichloroethane | ND | 0.247 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,1-Dichloroethene | ND | 0.051 | ND | 0.20 | 02/03/18 | KCA | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.135 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2,4-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2-Dibromoethane(EDB) | ND | 0.130 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2-Dichloroethane | ND | 0.247 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2-dichloropropane | ND | 0.217 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.143 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,3,5-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,3-Butadiene | ND | 0.452 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,3-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,4-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 1,4-Dioxane | ND | 0.278 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 2-Hexanone(MBK) | ND | 0.244 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 4-Ethyltoluene | ND | 0.204 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 4-Isopropyltoluene | ND | 0.182 | ND | 1.00 | 02/03/18 | KCA | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.244 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Acetone | 10.4 | 0.421 | 24.7 | 1.00 | 02/03/18 | KCA | 1 |
| Acrylonitrile | ND | 0.461 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Benzene | ND | 0.313 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Benzyl chloride | ND | 0.193 | ND | 1.00 | 02/03/18 | KCA | 1 |

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution |
|--------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| Bromodichloromethane | ND | 0.149 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Bromoform | ND | 0.097 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Bromomethane | ND | 0.258 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Carbon Disulfide | ND | 0.321 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Carbon Tetrachloride | 0.084 | 0.032 | 0.53 | 0.20 | 02/03/18 | KCA | 1 |
| Chlorobenzene | ND | 0.217 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Chloroethane | ND | 0.379 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Chloroform | ND | 0.205 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Chloromethane | ND | 0.485 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Cis-1,2-Dichloroethene | 74.9 | 6.31 | 297 | 25.0 | 02/05/18 | KCA | 125 |
| cis-1,3-Dichloropropene | ND | 0.221 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Cyclohexane | ND | 0.291 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Dibromochloromethane | ND | 0.118 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Dichlorodifluoromethane | ND | 0.202 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Ethanol | 2.52 | 0.531 | 4.75 | 1.00 | 02/03/18 | KCA | 1 |
| Ethyl acetate | ND | 0.278 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Ethylbenzene | ND | 0.230 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Heptane | ND | 0.244 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Hexachlorobutadiene | ND | 0.094 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Hexane | ND | 0.284 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Isopropylalcohol | 1.30 | 0.407 | 3.19 | 1.00 | 02/03/18 | KCA | 1 |
| Isopropylbenzene | ND | 0.204 | ND | 1.00 | 02/03/18 | KCA | 1 |
| m,p-Xylene | ND | 0.230 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Methyl Ethyl Ketone | 7.39 | 0.339 | 21.8 | 1.00 | 02/03/18 | KCA | 1 |
| Methyl tert-butyl ether(MTBE) | ND | 0.278 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Methylene Chloride | ND | 0.864 | ND | 3.00 | 02/03/18 | KCA | 1 |
| n-Butylbenzene | ND | 0.182 | ND | 1.00 | 02/03/18 | KCA | 1 |
| o-Xylene | ND | 0.230 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Propylene | 0.949 | 0.581 | 1.63 | 1.00 | 02/03/18 | KCA | 1 |
| sec-Butylbenzene | ND | 0.182 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Styrene | ND | 0.235 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Tetrachloroethene | 2190 | 4.61 | 14800 | 31.2 | 02/05/18 | KCA | 125 |
| Tetrahydrofuran | 4.94 | 0.339 | 14.6 | 1.00 | 02/03/18 | KCA | 1 |
| Toluene | 0.269 | 0.266 | 1.01 | 1.00 | 02/03/18 | KCA | 1 |
| Trans-1,2-Dichloroethene | 2.04 | 0.252 | 8.08 | 1.00 | 02/03/18 | KCA | 1 |
| trans-1,3-Dichloropropene | ND | 0.221 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Trichloroethene | 338 | 4.66 | 1820 | 25.0 | 02/05/18 | KCA | 125 |
| Trichlorofluoromethane | 0.300 | 0.178 | 1.68 | 1.00 | 02/03/18 | KCA | 1 |
| Trichlorotrifluoroethane | ND | 0.131 | ND | 1.00 | 02/03/18 | KCA | 1 |
| Vinyl Chloride | ND | 0.078 | ND | 0.20 | 02/03/18 | KCA | 1 |
| <u>QA/QC Surrogates</u> | | | | | | | |
| % Bromofluorobenzene | 105 | % | 105 | % | 02/03/18 | KCA | 1 |

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution |
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

February 07, 2018

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2018

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information

Matrix: AIR
Location Code: ENVIROTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 835
Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Custody Information

Collected by: JW
Received by: SW
Analyzed by: see "By" below

Date

Time

02/01/18 15:56

02/02/18 16:39

SDG ID: GBZ84200

Phoenix ID: BZ84201

Laboratory Data

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution |
|-------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| Volatiles (TO15) | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,1,1-Trichloroethane | ND | 0.183 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,1,2-Trichloroethane | ND | 0.183 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,1-Dichloroethane | ND | 0.247 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,1-Dichloroethene | ND | 0.051 | ND | 0.20 | 02/05/18 | KCA | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.135 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2,4-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2-Dibromoethane(EDB) | ND | 0.130 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2-Dichloroethane | ND | 0.247 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2-dichloropropane | ND | 0.217 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.143 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,3,5-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,3-Butadiene | ND | 0.452 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,3-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,4-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 1,4-Dioxane | ND | 0.278 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 2-Hexanone(MBK) | ND | 0.244 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 4-Ethyltoluene | ND | 0.204 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 4-Isopropyltoluene | ND | 0.182 | ND | 1.00 | 02/05/18 | KCA | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.244 | ND | 1.00 | 02/05/18 | KCA | 1 |
| Acetone | 2.00 | S 0.421 | 4.75 | 1.00 | 02/05/18 | KCA | 1 |
| Acrylonitrile | ND | 0.461 | ND | 1.00 | 02/05/18 | KCA | 1 |
| Benzene | ND | 0.313 | ND | 1.00 | 02/05/18 | KCA | 1 |
| Benzyl chloride | ND | 0.193 | ND | 1.00 | 02/05/18 | KCA | 1 |

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution | |
|--------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|---|
| Bromodichloromethane | ND | 0.149 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Bromoform | ND | 0.097 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Bromomethane | ND | 0.258 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Carbon Disulfide | ND | 0.321 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Carbon Tetrachloride | ND | 0.032 | ND | 0.20 | 02/05/18 | KCA | 1 | |
| Chlorobenzene | ND | 0.217 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Chloroethane | ND | 0.379 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Chloroform | ND | 0.205 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Chloromethane | ND | 0.485 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | 0.051 | ND | 0.20 | 02/05/18 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | 0.221 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Cyclohexane | ND | 0.291 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Dibromochloromethane | ND | 0.118 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Dichlorodifluoromethane | ND | 0.202 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Ethanol | 0.802 | 0.531 | 1.51 | 1.00 | 02/05/18 | KCA | 1 | 1 |
| Ethyl acetate | ND | 0.278 | ND | 1.00 | 02/05/18 | KCA | 1 | 1 |
| Ethylbenzene | ND | 0.230 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Heptane | ND | 0.244 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Hexachlorobutadiene | ND | 0.094 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Hexane | ND | 0.284 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Isopropylalcohol | 1.25 | 0.407 | 3.07 | 1.00 | 02/05/18 | KCA | 1 | |
| Isopropylbenzene | ND | 0.204 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| m,p-Xylene | ND | 0.230 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Methyl Ethyl Ketone | ND | 0.339 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | 0.278 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Methylene Chloride | ND | 0.864 | ND | 3.00 | 02/05/18 | KCA | 1 | |
| n-Butylbenzene | ND | 0.182 | ND | 1.00 | 02/05/18 | KCA | 1 | 1 |
| o-Xylene | ND | 0.230 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Propylene | 0.867 | 0.581 | 1.49 | 1.00 | 02/05/18 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | 0.182 | ND | 1.00 | 02/05/18 | KCA | 1 | 1 |
| Styrene | ND | 0.235 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Tetrachloroethene | ND | 0.037 | ND | 0.25 | 02/05/18 | KCA | 1 | |
| Tetrahydrofuran | ND | 0.339 | ND | 1.00 | 02/05/18 | KCA | 1 | 1 |
| Toluene | ND | 0.266 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | 0.252 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | 0.221 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Trichloroethene | ND | 0.037 | ND | 0.20 | 02/05/18 | KCA | 1 | |
| Trichlorofluoromethane | ND | 0.178 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | 0.131 | ND | 1.00 | 02/05/18 | KCA | 1 | |
| Vinyl Chloride | ND | 0.078 | ND | 0.20 | 02/05/18 | KCA | 1 | |
| <u>QA/QC Surrogates</u> | | | | | | | | |
| % Bromofluorobenzene | 100 | % | 100 | % | 02/05/18 | KCA | 1 | |

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution |
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller

Phyllis Shiller, Laboratory Director

February 07, 2018

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

February 07, 2018

QA/QC Data

SDG I.D.: GBZ84200

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|---|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| QA/QC Batch 418872 (ppbv), QC Sample No: BZ83844 (BZ84200 (125X) , BZ84201) | | | | | | | | | | | | |
| Volatiles | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.500 | ND | 3.43 | 96 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane | ND | 0.500 | ND | 2.73 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 0.500 | ND | 3.43 | 99 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane | ND | 0.500 | ND | 2.73 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane | ND | 0.500 | ND | 2.02 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene | ND | 0.500 | ND | 1.98 | 92 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene | ND | 0.500 | ND | 3.71 | 92 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene | ND | 0.500 | ND | 2.46 | 114 | 3.37 | 4.19 | 0.686 | 0.852 | NC | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB) | ND | 0.500 | ND | 3.84 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane | ND | 0.500 | ND | 2.02 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-dichloropropane | ND | 0.500 | ND | 2.31 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.500 | ND | 3.49 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene | ND | 0.500 | ND | 2.46 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Butadiene | ND | 0.500 | ND | 1.11 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dioxane | ND | 0.500 | ND | 1.80 | 119 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK) | ND | 0.500 | ND | 2.05 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Ethyltoluene | ND | 0.500 | ND | 2.46 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Isopropyltoluene | ND | 0.500 | ND | 2.74 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.500 | ND | 2.05 | 127 | 7.78 | 9.9 | 1.90 | 2.43 | NC | 70 - 130 | 25 |
| Acetone | ND | 0.500 | ND | 1.19 | 97 | 145 | 172 | 61.0 | 72.3 | 17.0 | 70 - 130 | 25 |
| Acrylonitrile | ND | 0.500 | ND | 1.08 | 66 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzene | ND | 0.500 | ND | 1.60 | 115 | 2.19 | 2.65 | 0.686 | 0.830 | NC | 70 - 130 | 25 |
| Benzyl chloride | ND | 0.500 | ND | 2.59 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromodichloromethane | ND | 0.500 | ND | 3.35 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromoform | ND | 0.500 | ND | 5.17 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromomethane | ND | 0.500 | ND | 1.94 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Disulfide | ND | 0.500 | ND | 1.56 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Tetrachloride | ND | 0.500 | ND | 3.14 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chlorobenzene | ND | 0.500 | ND | 2.30 | 99 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroethane | ND | 0.500 | ND | 1.32 | 96 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroform | ND | 0.500 | ND | 2.44 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloromethane | ND | 0.500 | ND | 1.03 | 99 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cis-1,2-Dichloroethene | ND | 0.500 | ND | 1.98 | 114 | 8.99 | 10.5 | 2.27 | 2.65 | NC | 70 - 130 | 25 |
| cis-1,3-Dichloropropene | ND | 0.500 | ND | 2.27 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cyclohexane | ND | 0.500 | ND | 1.72 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dibromochloromethane | ND | 0.500 | ND | 4.26 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dichlorodifluoromethane | ND | 0.500 | ND | 2.47 | 105 | 2.56 | 3.04 | 0.519 | 0.615 | NC | 70 - 130 | 25 |
| Ethanol | ND | 0.500 | ND | 0.94 | 99 | 288 | 345 | 153 | 183 | 17.9 | 70 - 130 | 25 |

QA/QC Data

SDG I.D.: GBZ84200

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| Ethyl acetate | ND | 0.500 | ND | 1.80 | 122 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Ethylbenzene | ND | 0.500 | ND | 2.17 | 118 | 27.1 | 33.8 | 6.24 | 7.78 | 22.0 | 70 - 130 | 25 |
| Heptane | ND | 0.500 | ND | 2.05 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Hexachlorobutadiene | ND | 0.500 | ND | 5.33 | 90 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Hexane | ND | 0.500 | ND | 1.76 | 126 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Isopropylalcohol | ND | 0.500 | ND | 1.23 | 91 | 74.2 | 86.2 | 30.2 | 35.1 | 15.0 | 70 - 130 | 25 |
| Isopropylbenzene | ND | 0.500 | ND | 2.46 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| m,p-Xylene | ND | 1.00 | ND | 4.34 | 121 | 97.6 | 125 | 22.5 | 28.8 | 24.6 | 70 - 130 | 25 |
| Methyl Ethyl Ketone | ND | 0.500 | ND | 1.47 | 105 | 10.7 | 12.7 | 3.63 | 4.32 | 17.4 | 70 - 130 | 25 |
| Methyl tert-butyl ether(MTBE) | ND | 0.500 | ND | 1.80 | 121 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Methylene Chloride | ND | 0.500 | ND | 1.74 | 86 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| n-Butylbenzene | ND | 0.500 | ND | 2.74 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| o-Xylene | ND | 0.500 | ND | 2.17 | 114 | 22.3 | 28.3 | 5.15 | 6.53 | 23.6 | 70 - 130 | 25 |
| Propylene | ND | 0.500 | ND | 0.86 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| sec-Butylbenzene | ND | 0.500 | ND | 2.74 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Styrene | ND | 0.500 | ND | 2.13 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Tetrachloroethene | ND | 0.500 | ND | 3.39 | 103 | 78.6 | 99.0 | 11.6 | 14.6 | 22.9 | 70 - 130 | 25 |
| Tetrahydrofuran | ND | 0.500 | ND | 1.47 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Toluene | ND | 0.500 | ND | 1.88 | 119 | 3.37 | 4.18 | 0.896 | 1.11 | NC | 70 - 130 | 25 |
| Trans-1,2-Dichloroethene | ND | 0.500 | ND | 1.98 | 111 | 7.29 | 8.64 | 1.84 | 2.18 | NC | 70 - 130 | 25 |
| trans-1,3-Dichloropropene | ND | 0.500 | ND | 2.27 | 119 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trichloroethene | ND | 0.500 | ND | 2.69 | 110 | 29.2 | 36.9 | 5.43 | 6.87 | 23.4 | 70 - 130 | 25 |
| Trichlorofluoromethane | ND | 0.500 | ND | 2.81 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trichlorotrifluoroethane | ND | 0.500 | ND | 3.83 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Vinyl Chloride | ND | 0.500 | ND | 1.28 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| % Bromofluorobenzene | 100 | | 100 | | 96 | 109 | 111 | 109 | 111 | NC | 70 - 130 | 25 |

QA/QC Batch 418746 (ppbv), QC Sample No: BZ83847 (BZ84200)

Volatiles

| | | | | | | | | | | | | |
|-------------------------------|----|------|----|------|-----|------|------|-----|-----|-----|----------|----|
| 1,1,1,2-Tetrachloroethane | ND | 2.50 | ND | 17.2 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane | ND | 2.50 | ND | 13.6 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 2.50 | ND | 17.2 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane | ND | 2.50 | ND | 13.6 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane | ND | 2.50 | ND | 10.1 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene | ND | 2.50 | ND | 9.9 | 98 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene | ND | 2.50 | ND | 18.5 | 92 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene | ND | 2.50 | ND | 12.3 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB) | ND | 2.50 | ND | 19.2 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene | ND | 2.50 | ND | 15.0 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane | ND | 2.50 | ND | 10.1 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-dichloropropane | ND | 2.50 | ND | 11.5 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 2.50 | ND | 17.5 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene | ND | 2.50 | ND | 12.3 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Butadiene | ND | 2.50 | ND | 5.53 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene | ND | 2.50 | ND | 15.0 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene | ND | 2.50 | ND | 15.0 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dioxane | ND | 2.50 | ND | 9.00 | 122 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK) | ND | 2.50 | ND | 10.2 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Ethyltoluene | ND | 2.50 | ND | 12.3 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Isopropyltoluene | ND | 2.50 | ND | 13.7 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Methyl-2-pentanone(MIBK) | ND | 2.50 | ND | 10.2 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Acetone | ND | 2.50 | ND | 5.93 | 111 | 1220 | 1230 | 516 | 519 | 0.6 | 70 - 130 | 25 |
| Acrylonitrile | ND | 2.50 | ND | 5.42 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |

QA/QC Data

SDG I.D.: GBZ84200

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| Benzene | ND | 2.50 | ND | 7.98 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzyl chloride | ND | 2.50 | ND | 12.9 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromodichloromethane | ND | 2.50 | ND | 16.7 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromoform | ND | 2.50 | ND | 25.8 | 133 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromomethane | ND | 2.50 | ND | 9.7 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Disulfide | ND | 2.50 | ND | 7.78 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Tetrachloride | ND | 2.50 | ND | 15.7 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chlorobenzene | ND | 2.50 | ND | 11.5 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroethane | ND | 2.50 | ND | 6.59 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroform | ND | 2.50 | ND | 12.2 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloromethane | ND | 2.50 | ND | 5.16 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| cis-1,3-Dichloropropene | ND | 2.50 | ND | 11.3 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cyclohexane | ND | 2.50 | ND | 8.60 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dibromochloromethane | ND | 2.50 | ND | 21.3 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dichlorodifluoromethane | ND | 2.50 | ND | 12.4 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Ethanol | ND | 2.50 | ND | 4.71 | 116 | 130 | 144 | 68.8 | 76.4 | 10.5 | 70 - 130 | 25 |
| Ethyl acetate | ND | 2.50 | ND | 9.00 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Ethylbenzene | ND | 2.50 | ND | 10.8 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Heptane | ND | 2.50 | ND | 10.2 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Hexachlorobutadiene | ND | 2.50 | ND | 26.6 | 88 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Hexane | ND | 2.50 | ND | 8.81 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Isopropylalcohol | ND | 2.50 | ND | 6.14 | 105 | 161 | 186 | 65.7 | 75.8 | 14.3 | 70 - 130 | 25 |
| Isopropylbenzene | ND | 2.50 | ND | 12.3 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| m,p-Xylene | ND | 5.00 | ND | 21.7 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Methyl Ethyl Ketone | ND | 2.50 | ND | 7.37 | 106 | 12.9 | 13.0 | 4.39 | 4.42 | NC | 70 - 130 | 25 |
| Methyl tert-butyl ether(MTBE) | ND | 2.50 | ND | 9.01 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Methylene Chloride | ND | 2.50 | ND | 8.68 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| n-Butylbenzene | ND | 2.50 | ND | 13.7 | 94 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| o-Xylene | ND | 2.50 | ND | 10.8 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Propylene | ND | 2.50 | ND | 4.30 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| sec-Butylbenzene | ND | 2.50 | ND | 13.7 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Styrene | ND | 2.50 | ND | 10.6 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Tetrahydrofuran | ND | 2.50 | ND | 7.37 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Toluene | ND | 2.50 | ND | 9.42 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trans-1,2-Dichloroethene | ND | 2.50 | ND | 9.9 | 110 | 12.4 | 12.6 | 3.14 | 3.19 | NC | 70 - 130 | 25 |
| trans-1,3-Dichloropropene | ND | 2.50 | ND | 11.3 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trichlorofluoromethane | ND | 2.50 | ND | 14.0 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trichlorotrifluoroethane | ND | 2.50 | ND | 19.1 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Vinyl Chloride | ND | 2.50 | ND | 6.39 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| % Bromofluorobenzene | 126 | | 126 | | 103 | 99 | 102 | 99 | 102 | NC | 70 - 130 | 25 |

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

February 07, 2018

Wednesday, February 07, 2018

Criteria: None

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

Sample Criteria Exceedances Report

GBZ84200 - ENVIROTR

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

February 07, 2018

SDG I.D.: GBZ84200

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM20 02/05/18-1: BZ84200, BZ84201

The following Initial Calibration compounds did not meet RSD% criteria: Ethyl acetate 88% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: Ethyl acetate 88% (30%)



CHAIN OF CUSTODY RECORD
AIR ANALYSES

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860/645-1102 • Fax: 860/645-9823

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Data Delivery:

Fax #:
 Email:
 Phone #:

Page 1 of 1

Customer: EnviroTrac
Address: 50 Old Dock Road
Yaphank, NY 11980
Sampled by: Jim Wilkinston
Invoice to: EnviroTrac
Project Name: EnSafe-Westbury

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | THIS SECTION FOR LAB USE ONLY | | Flow Controller Setting (ml/min) | Flow Regulator ID # | Canister Pressure (cm Hg) | Incoming Canister Pressure (cm Hg) | Outgoing Canister Pressure (cm Hg) | Sampling Start Time | Sampling End Time | Sample Start Date | Sample End Date | Canister Pressure at Start (cm Hg) | Canister Pressure at End (cm Hg) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-14 | TO-15 | ANALYSES |
|---|------------------|---------------|-------------------|-------------------------------|-------|----------------------------------|---------------------|---------------------------|------------------------------------|------------------------------------|---------------------|-------------------|-------------------|-----------------|------------------------------------|----------------------------------|--------------------|----------|------------------------|-------|-------|----------|
| | | | | Time: | Date: | | | | | | | | | | | | | | | | | |
| 84300 | SUE INFLUENT | 722 | 1.4 | -30 | | NA | NA | NA | NA | NA | 15:58 | 15:57 | 2/1 | | | | | G | G | | | |
| 84301 | SUE EFFLUENT | 835 | 1.4 | -30 | | NA | NA | NA | NA | NA | 15:55 | 15:48 | 2/1 | | | | | G | G | | | |
| SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: <u>② 14L GRAB</u> | | | | | | | | | | | | | | | | | | | | | | |
| Requested Criteria | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <u>James Wilkinston</u> Accepted by: <u>John G. Buncle</u> | | | | | | | | | | | | | | | | | | | | | | |
| Date: <u>2-2-18</u> Time: <u>9:50</u> Data Format: <u>Excel</u> | | | | | | | | | | | | | | | | | | | | | | |
| Date: <u>2-2-18</u> Time: <u>10:30</u> Data Format: <u>PDF</u> | | | | | | | | | | | | | | | | | | | | | | |
| Other: <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | |
| Quote Number: _____ | | | | | | | | | | | | | | | | | | | | | | |
| Signature: _____ Date: _____ | | | | | | | | | | | | | | | | | | | | | | |
| I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document: | | | | | | | | | | | | | | | | | | | | | | |

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Appendix C
Water Sample
Laboratory Analytical Results



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

January 19, 2018

Jim Wilkinson
Envirotrac
5 Old Dock Road
Yaphank, NY 11980
TEL: (631) 924-3001
FAX (631) 924-5001

RE: Frost Street, 101 Frost St, Westbury, NY Order No.: 1801058

Dear Jim Wilkinson:

American Analytical Laboratories, LLC. received 1 sample(s) on 1/17/2018 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Tom Bleyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder
Sample Summary
WO#: **1801058**
19-Jan-18

CLIENT: Envirotrac
Project: Frost Street, 101 Frost St, Westbury, NY

| Lab SampleID | Client Sample ID | Tag No | Date Collected | Date Received | Matrix |
|--------------|------------------|--------|----------------------|----------------------|--------|
| 1801058-001A | Discharge Water | | 1/17/2018 1:00:00 PM | 1/17/2018 2:15:00 PM | Liquid |

Original



CHAIN OF CUSTODY

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com



CERTIFICATIONS

NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

| Client Information | | Project Information | | | | | | | | | | Analytical Test / Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Company Name | EnviroTrace LTD. | Project Name | Frost Street | | | | | | | | | NY ELAP - 11418 PA DEP - 68-00573 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | 5 Old Dock Road | Street | 101 Frost Street | | | | | | | | | NJ DEP - NY050 CT DOH - PH-0205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City | Yaphank | State | NY | Zip | City | Westport | State | CT | Zip | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Contact | Jim Wilson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone # | 631-924-3001 | Project # / Purchase Order # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-mail | JamesW@envirotrace.com | Sampler's Name / Company | | | | | | | | | Josh Lewin / ETO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LAB | Sample Information | | | | | | | | | | Sample Collection | | Sample Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE # | Client Sample ID | Sample Type | Matrix Code | Date | Time | Glass / Plastic | Total # of bottles | UNO | HCl | NaOH | NaCl | NaOAc | NaNO ₂ | Na ₂ CO ₃ | Na ₂ SO ₄ | Na ₃ PO ₄ | Na ₂ SiO ₃ | Na ₂ EDTA | Na ₂ CrO ₄ | Na ₂ SO ₃ | Na ₂ SeO ₃ | Na ₂ SeO ₄ | Na ₂ SeO ₅ | Na ₂ SeO ₇ | Na ₂ SeO ₈ | Na ₂ SeO ₉ | Na ₂ SeO ₁₀ | Na ₂ SeO ₁₁ | Na ₂ SeO ₁₂ | Na ₂ SeO ₁₃ | Na ₂ SeO ₁₄ | Na ₂ SeO ₁₅ | Na ₂ SeO ₁₆ | Na ₂ SeO ₁₇ | Na ₂ SeO ₁₈ | Na ₂ SeO ₁₉ | Na ₂ SeO ₂₀ | Na ₂ SeO ₂₁ | Na ₂ SeO ₂₂ | Na ₂ SeO ₂₃ | Na ₂ SeO ₂₄ | Na ₂ SeO ₂₅ | Na ₂ SeO ₂₆ | Na ₂ SeO ₂₇ | Na ₂ SeO ₂₈ | Na ₂ SeO ₂₉ | Na ₂ SeO ₃₀ | Na ₂ SeO ₃₁ | Na ₂ SeO ₃₂ | Na ₂ SeO ₃₃ | Na ₂ SeO ₃₄ | Na ₂ SeO ₃₅ | Na ₂ SeO ₃₆ | Na ₂ SeO ₃₇ | Na ₂ SeO ₃₈ | Na ₂ SeO ₃₉ | Na ₂ SeO ₄₀ | Na ₂ SeO ₄₁ | Na ₂ SeO ₄₂ | Na ₂ SeO ₄₃ | Na ₂ SeO ₄₄ | Na ₂ SeO ₄₅ | Na ₂ SeO ₄₆ | Na ₂ SeO ₄₇ | Na ₂ SeO ₄₈ | Na ₂ SeO ₄₉ | Na ₂ SeO ₅₀ | Na ₂ SeO ₅₁ | Na ₂ SeO ₅₂ | Na ₂ SeO ₅₃ | Na ₂ SeO ₅₄ | Na ₂ SeO ₅₅ | Na ₂ SeO ₅₆ | Na ₂ SeO ₅₇ | Na ₂ SeO ₅₈ | Na ₂ SeO ₅₉ | Na ₂ SeO ₆₀ | Na ₂ SeO ₆₁ | Na ₂ SeO ₆₂ | Na ₂ SeO ₆₃ | Na ₂ SeO ₆₄ | Na ₂ SeO ₆₅ | Na ₂ SeO ₆₆ | Na ₂ SeO ₆₇ | Na ₂ SeO ₆₈ | Na ₂ SeO ₆₉ | Na ₂ SeO ₇₀ | Na ₂ SeO ₇₁ | Na ₂ SeO ₇₂ | Na ₂ SeO ₇₃ | Na ₂ SeO ₇₄ | Na ₂ SeO ₇₅ | Na ₂ SeO ₇₆ | Na ₂ SeO ₇₇ | Na ₂ SeO ₇₈ | Na ₂ SeO ₇₉ | Na ₂ SeO ₈₀ | Na ₂ SeO ₈₁ | Na ₂ SeO ₈₂ | Na ₂ SeO ₈₃ | Na ₂ SeO ₈₄ | Na ₂ SeO ₈₅ | Na ₂ SeO ₈₆ | Na ₂ SeO ₈₇ | Na ₂ SeO ₈₈ | Na ₂ SeO ₈₉ | Na ₂ SeO ₉₀ | Na ₂ SeO ₉₁ | Na ₂ SeO ₉₂ | Na ₂ SeO ₉₃ | Na ₂ SeO ₉₄ | Na ₂ SeO ₉₅ | Na ₂ SeO ₉₆ | Na ₂ SeO ₉₇ | Na ₂ SeO ₉₈ | Na ₂ SeO ₉₉ | Na ₂ SeO ₁₀₀ | Na ₂ SeO ₁₀₁ | Na ₂ SeO ₁₀₂ | Na ₂ SeO ₁₀₃ | Na ₂ SeO ₁₀₄ | Na ₂ SeO ₁₀₅ | Na ₂ SeO ₁₀₆ | Na ₂ SeO ₁₀₇ | Na ₂ SeO ₁₀₈ | Na ₂ SeO ₁₀₉ | Na ₂ SeO ₁₁₀ | Na ₂ SeO ₁₁₁ | Na ₂ SeO ₁₁₂ | Na ₂ SeO ₁₁₃ | Na ₂ SeO ₁₁₄ | Na ₂ SeO ₁₁₅ | Na ₂ SeO ₁₁₆ | Na ₂ SeO ₁₁₇ | Na ₂ SeO ₁₁₈ | Na ₂ SeO ₁₁₉ | Na ₂ SeO ₁₂₀ | Na ₂ SeO ₁₂₁ | Na ₂ SeO ₁₂₂ | Na ₂ SeO ₁₂₃ | Na ₂ SeO ₁₂₄ | Na ₂ SeO ₁₂₅ | Na ₂ SeO ₁₂₆ | Na ₂ SeO ₁₂₇ | Na ₂ SeO ₁₂₈ | Na ₂ SeO ₁₂₉ | Na ₂ SeO ₁₃₀ | Na ₂ SeO ₁₃₁ | Na ₂ SeO ₁₃₂ | Na ₂ SeO ₁₃₃ | Na ₂ SeO ₁₃₄ | Na ₂ SeO ₁₃₅ | Na ₂ SeO ₁₃₆ | Na ₂ SeO ₁₃₇ | Na ₂ SeO ₁₃₈ | Na ₂ SeO ₁₃₉ | Na ₂ SeO ₁₄₀ | Na ₂ SeO ₁₄₁ | Na ₂ SeO ₁₄₂ | Na ₂ SeO ₁₄₃ | Na ₂ SeO ₁₄₄ | Na ₂ SeO ₁₄₅ | Na ₂ SeO ₁₄₆ | Na ₂ SeO ₁₄₇ | Na ₂ SeO ₁₄₈ | Na ₂ SeO ₁₄₉ | Na ₂ SeO ₁₅₀ | Na ₂ SeO ₁₅₁ | Na ₂ SeO ₁₅₂ | Na ₂ SeO ₁₅₃ | Na ₂ SeO ₁₅₄ | Na ₂ SeO ₁₅₅ | Na ₂ SeO ₁₅₆ | Na ₂ SeO ₁₅₇ | Na ₂ SeO ₁₅₈ | Na ₂ SeO ₁₅₉ | Na ₂ SeO ₁₆₀ | Na ₂ SeO ₁₆₁ | Na ₂ SeO ₁₆₂ | Na ₂ SeO ₁₆₃ | Na ₂ SeO ₁₆₄ | Na ₂ SeO ₁₆₅ | Na ₂ SeO ₁₆₆ | Na ₂ SeO ₁₆₇ | Na ₂ SeO ₁₆₈ | Na ₂ SeO ₁₆₉ | Na ₂ SeO ₁₇₀ | Na ₂ SeO ₁₇₁ | Na ₂ SeO ₁₇₂ | Na ₂ SeO ₁₇₃ | Na ₂ SeO ₁₇₄ | Na ₂ SeO ₁₇₅ | Na ₂ SeO ₁₇₆ | Na ₂ SeO ₁₇₇ | Na ₂ SeO ₁₇₈ | Na ₂ SeO ₁₇₉ | Na ₂ SeO ₁₈₀ | Na ₂ SeO ₁₈₁ | Na ₂ SeO ₁₈₂ | Na ₂ SeO ₁₈₃ | Na ₂ SeO ₁₈₄ | Na ₂ SeO ₁₈₅ | Na ₂ SeO ₁₈₆ | Na ₂ SeO ₁₈₇ | Na ₂ SeO ₁₈₈ | Na ₂ SeO ₁₈₉ | Na ₂ SeO ₁₉₀ | Na ₂ SeO ₁₉₁ | Na ₂ SeO ₁₉₂ | Na ₂ SeO ₁₉₃ | Na ₂ SeO ₁₉₄ | Na ₂ SeO ₁₉₅ | Na ₂ SeO ₁₉₆ | Na ₂ SeO ₁₉₇ | Na ₂ SeO ₁₉₈ | Na ₂ SeO ₁₉₉ | Na ₂ SeO ₂₀₀ | Na ₂ SeO ₂₀₁ | Na ₂ SeO ₂₀₂ | Na ₂ SeO ₂₀₃ | Na ₂ SeO ₂₀₄ | Na ₂ SeO ₂₀₅ | Na ₂ SeO ₂₀₆ | Na ₂ SeO ₂₀₇ | Na ₂ SeO ₂₀₈ | Na ₂ SeO ₂₀₉ | Na ₂ SeO ₂₁₀ | Na ₂ SeO ₂₁₁ | Na ₂ SeO ₂₁₂ | Na ₂ SeO ₂₁₃ | Na ₂ SeO ₂₁₄ | Na ₂ SeO ₂₁₅ | Na ₂ SeO ₂₁₆ | Na ₂ SeO ₂₁₇ | Na ₂ SeO ₂₁₈ | Na ₂ SeO ₂₁₉ | Na ₂ SeO ₂₂₀ | Na ₂ SeO ₂₂₁ | Na ₂ SeO ₂₂₂ | Na ₂ SeO ₂₂₃ | Na ₂ SeO ₂₂₄ | Na ₂ SeO ₂₂₅ | Na ₂ SeO ₂₂₆ | Na ₂ SeO ₂₂₇ | Na ₂ SeO ₂₂₈ | Na ₂ SeO ₂₂₉ | Na ₂ SeO ₂₃₀ | Na ₂ SeO ₂₃₁ | Na ₂ SeO ₂₃₂ | Na ₂ SeO ₂₃₃ | Na ₂ SeO ₂₃₄ | Na ₂ SeO ₂₃₅ | Na ₂ SeO ₂₃₆ | Na ₂ SeO ₂₃₇ | Na ₂ SeO ₂₃₈ | Na ₂ SeO ₂₃₉ | Na ₂ SeO ₂₄₀ | Na ₂ SeO ₂₄₁ | Na ₂ SeO ₂₄₂ | Na ₂ SeO ₂₄₃ | Na ₂ SeO ₂₄₄ | Na ₂ SeO ₂₄₅ | Na ₂ SeO ₂₄₆ | Na ₂ SeO ₂₄₇ | Na ₂ SeO ₂₄₈ | Na ₂ SeO ₂₄₉ | Na ₂ SeO ₂₅₀ | Na ₂ SeO ₂₅₁ | Na ₂ SeO ₂₅₂ | Na ₂ SeO ₂₅₃ | Na ₂ SeO ₂₅₄ | Na ₂ SeO ₂₅₅ | Na ₂ SeO ₂₅₆ | Na ₂ SeO ₂₅₇ | Na ₂ SeO ₂₅₈ | Na ₂ SeO ₂₅₉ | Na ₂ SeO ₂₆₀ | Na ₂ SeO ₂₆₁ | Na ₂ SeO ₂₆₂ | Na ₂ SeO ₂₆₃ | Na ₂ SeO ₂₆₄ | Na ₂ SeO ₂₆₅ | Na ₂ SeO ₂₆₆ | Na ₂ SeO ₂₆₇ | Na ₂ SeO ₂₆₈ | Na ₂ SeO ₂₆₉ | Na ₂ SeO ₂₇₀ | Na ₂ SeO ₂₇₁ | Na ₂ SeO ₂₇₂ | Na ₂ SeO ₂₇₃ | Na ₂ SeO ₂₇₄ | Na ₂ SeO ₂₇₅ | Na ₂ SeO ₂₇₆ | Na ₂ SeO ₂₇₇ | Na ₂ SeO ₂₇₈ | Na ₂ SeO ₂₇₉ | Na ₂ SeO ₂₈₀ | Na ₂ SeO ₂₈₁ | Na ₂ SeO ₂₈₂ | Na ₂ SeO ₂₈₃ | Na ₂ SeO ₂₈₄ | Na ₂ SeO ₂₈₅ | Na ₂ SeO ₂₈₆ | Na ₂ SeO ₂₈₇ | Na ₂ SeO ₂₈₈ | Na ₂ SeO ₂₈₉ | Na ₂ SeO ₂₉₀ | Na ₂ SeO ₂₉₁ | Na ₂ SeO ₂₉₂ | Na ₂ SeO ₂₉₃ | Na ₂ SeO ₂₉₄ | Na ₂ SeO ₂₉₅ | Na ₂ SeO ₂₉₆ | Na ₂ SeO ₂₉₇ | Na ₂ SeO ₂₉₈ | Na ₂ SeO ₂₉₉ | Na ₂ SeO ₃₀₀ | Na ₂ SeO ₃₀₁ | Na ₂ SeO ₃₀₂ | Na ₂ SeO ₃₀₃ | Na ₂ SeO ₃₀₄ | Na ₂ SeO ₃₀₅ | Na ₂ SeO ₃₀₆ | Na ₂ SeO ₃₀₇ | Na ₂ SeO ₃₀₈ | Na ₂ SeO ₃₀₉ | Na ₂ SeO ₃₁₀ | Na ₂ SeO ₃₁₁ | Na ₂ SeO ₃₁₂ | Na ₂ SeO ₃₁₃ | Na ₂ SeO ₃₁₄ | Na ₂ SeO ₃₁₅ | Na ₂ SeO ₃₁₆ | Na ₂ SeO ₃₁₇ | Na ₂ SeO ₃₁₈ | Na ₂ SeO ₃₁₉ | Na ₂ SeO ₃₂₀ | Na ₂ SeO ₃₂₁ | Na ₂ SeO ₃₂₂ | Na ₂ SeO ₃₂₃ | Na ₂ SeO ₃₂₄ | Na ₂ SeO ₃₂₅ | Na ₂ SeO ₃₂₆ | Na ₂ SeO ₃₂₇ | Na ₂ SeO ₃₂₈ | Na ₂ SeO ₃₂₉ | Na ₂ SeO ₃₃₀ | Na ₂ SeO ₃₃₁ | Na ₂ SeO ₃₃₂ | Na ₂ SeO ₃₃₃ | Na ₂ SeO ₃₃₄ | Na ₂ SeO ₃₃₅ | Na ₂ SeO ₃₃₆ | Na ₂ SeO ₃₃₇ | Na ₂ SeO ₃₃₈ | Na ₂ SeO ₃₃₉ | Na ₂ SeO ₃₄₀ | Na ₂ SeO ₃₄₁ | Na ₂ SeO ₃₄₂ | Na ₂ SeO ₃₄₃ | Na ₂ SeO ₃₄₄ | Na ₂ SeO ₃₄₅ | Na ₂ SeO ₃₄₆ | Na ₂ SeO ₃₄₇ | Na ₂ SeO ₃₄₈ | Na ₂ SeO ₃₄₉ | Na ₂ SeO ₃₅₀ | Na ₂ SeO ₃₅₁ | Na ₂ SeO ₃₅₂ | Na ₂ SeO ₃₅₃ | Na ₂ SeO ₃₅₄ | Na ₂ SeO ₃₅₅ | Na ₂ SeO ₃₅₆ | Na ₂ SeO ₃₅₇ | Na ₂ SeO ₃₅₈ | Na ₂ SeO ₃₅₉ | Na ₂ SeO ₃₆₀ | Na ₂ SeO ₃₆₁ | Na ₂ SeO ₃₆₂ | Na ₂ SeO ₃₆₃ | Na ₂ SeO ₃₆₄ | Na ₂ SeO ₃₆₅ | Na ₂ SeO ₃₆₆ | Na ₂ SeO ₃₆₇ | Na ₂ SeO ₃₆₈ | Na ₂ SeO ₃₆₉ | Na ₂ SeO ₃₇₀ | Na ₂ SeO ₃₇₁ | Na ₂ SeO ₃₇₂ | Na ₂ SeO ₃₇₃ | Na ₂ SeO ₃₇₄ | Na ₂ SeO ₃₇₅ | Na ₂ SeO ₃₇₆ | Na ₂ SeO ₃₇₇ | Na ₂ SeO ₃₇₈ | Na ₂ SeO ₃₇₉ | Na ₂ SeO ₃₈₀ | Na ₂ SeO ₃₈₁ | Na ₂ SeO ₃₈₂ | Na ₂ SeO ₃₈₃ | Na ₂ SeO ₃₈₄ | Na ₂ SeO ₃₈₅ | Na ₂ SeO ₃₈₆ | Na ₂ SeO ₃₈₇ | Na ₂ SeO ₃₈₈ | Na ₂ SeO ₃₈₉ | Na ₂ SeO ₃₉₀ | Na ₂ SeO ₃₉₁ | Na ₂ SeO ₃₉₂ | Na ₂ SeO ₃₉₃ | Na ₂ SeO ₃₉₄ | Na ₂ SeO ₃₉₅ | Na ₂ SeO ₃₉₆ | Na ₂ SeO ₃₉₇ | Na ₂ SeO ₃₉₈ | Na ₂ SeO ₃₉₉ | Na ₂ SeO ₄₀₀ | Na ₂ SeO ₄₀₁ | Na ₂ SeO ₄₀₂ | Na ₂ SeO ₄₀₃ | Na ₂ SeO ₄₀₄ | Na ₂ SeO ₄₀₅ | Na ₂ SeO ₄₀₆ | Na ₂ SeO ₄₀₇ | Na ₂ SeO ₄₀₈ | Na ₂ SeO ₄₀₉ | Na ₂ SeO ₄₁₀ | Na ₂ SeO ₄₁₁ | Na ₂ SeO ₄₁₂ | Na ₂ SeO ₄₁₃ | Na ₂ SeO ₄₁₄ | Na ₂ SeO ₄₁₅ | Na ₂ SeO ₄₁₆ | Na ₂ SeO ₄₁₇ | Na ₂ SeO ₄₁₈ | Na ₂ SeO ₄₁₉ | Na ₂ SeO ₄₂₀ | Na ₂ SeO ₄₂₁ | Na ₂ SeO ₄₂₂ | Na ₂ SeO ₄₂₃ | Na ₂ SeO ₄₂₄ | Na ₂ SeO ₄₂₅ | Na ₂ SeO ₄₂₆ | Na ₂ SeO ₄₂₇ | Na ₂ SeO ₄₂₈ | Na ₂ SeO ₄₂₉ | Na ₂ SeO ₄₃₀ | Na ₂ SeO ₄₃₁ | Na ₂ SeO ₄₃₂ | Na ₂ SeO ₄₃₃ | Na ₂ SeO ₄₃₄ | Na ₂ SeO ₄₃₅ | Na ₂ SeO ₄₃₆ | Na ₂ SeO ₄₃₇ | Na ₂ SeO ₄₃₈ | Na ₂ SeO ₄₃₉ | Na ₂ SeO ₄₄₀ | Na ₂ SeO ₄₄₁ | Na ₂ SeO ₄₄₂ | Na ₂ SeO ₄₄₃ | Na ₂ SeO ₄₄₄ | Na ₂ SeO ₄₄₅ | Na ₂ SeO ₄₄₆ | Na ₂ SeO ₄₄₇ | Na ₂ SeO ₄₄₈ | Na ₂ SeO ₄₄₉ | Na ₂ SeO ₄₅₀ | Na ₂ SeO ₄₅₁ | Na ₂ SeO ₄₅₂ | Na ₂ SeO ₄₅₃ | Na ₂ SeO ₄₅₄ | Na ₂ SeO ₄₅₅ | Na ₂ SeO ₄₅₆ | Na ₂ SeO |



American Analytical Laboratories, LLC.
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TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **ENVIROTRAC** Work Order Number: **1801058** RcptNo: **1**

| | | | |
|---------------|--------------------|-----------------------------|--------------------|
| Logged by: | Lori Beyer | 1/17/2018 2:15:00 PM | <i>Lori Beyer</i> |
| Completed By: | Lori Beyer | 1/17/2018 2:38:27 PM | <i>Lori Beyer</i> |
| Reviewed By: | Karen Kelly | 1/17/2018 | <i>Karen Kelly</i> |

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
Custody seals intact on shipping container/cooler? Yes No Not Present
No. **Seal Date:** **Signed By:**
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

| | | |
|----------------------|----------------------|--|
| Person Notified: | <input type="text"/> | Date <input type="text"/> |
| By Whom: | <input type="text"/> | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | |
| Client Instructions: | <input type="text"/> | |

18. Additional remarks:

Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
|-----------|---------|-----------|-------------|---------|-----------|-----------|



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Case Narrative

WO#: 1801058
Date: 1/19/2018

CLIENT: Envirotrac
Project: Frost Street, 101 Frost St, Westbury, NY

Sample Discharge Water was analyzed using EPA Method 624.

Volatile LCS are analyzed with preservatives - HCL/NaHSO4/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

Original



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Definition Only

WO#: 1801058
Date: 1/19/2018

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

PQL - Practical Quantitation Limit; the lowest level that can be reliably achieved within the specific limits of Precision and accuracy. Listed on the QC Summary Forms.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

Original

American Analytical Laboratories, LLC.**Date: 19-Jan-18****ELAP ID : 11418**

CLIENT: Envirotrac
Lab Order: 1801058
Project: Frost Street, 101 Frost St, Westbury, NY
Lab ID: 1801058-001A

Client Sample ID: Discharge Water
Collection Date: 1/17/2018 1:00:00 PM
Matrix: LIQUID

Certificate of Results

| Analyses | Sample Result | LOD | LOQ | Qual | Units | DF | Date/Time Analyzed |
|--------------------------------|----------------------|------------|-------------|-------------|--------------|-----------|---------------------------|
| VOLATILE EPA METHOD 624 | | | | | | | |
| | | | E624 | | E624 | | Analyst: LA |
| 1,1,1-Trichloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,1,2-Trichloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,1-Dichloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,1-Dichloroethene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,2-Dichlorobenzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,2-Dichloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,2-Dichloropropane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,3-Dichlorobenzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 1,4-Dichlorobenzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| 2-Chloroethyl vinyl ether | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Benzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Bromodichloromethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Bromoform | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Bromomethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Carbon tetrachloride | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Chlorobenzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Chloroethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Chloroform | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Chloromethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| cis-1,3-Dichloropropene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Dibromochloromethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Ethylbenzene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Methylene chloride | ND | 5.0 | 5.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Tetrachloroethene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Toluene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| trans-1,2-Dichloroethene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| trans-1,3-Dichloropropene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Trichloroethene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Trichlorofluoromethane | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Vinyl chloride | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Xylenes, Total | ND | 0.60 | 6.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Acetone | ND | 5.0 | 5.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |

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Original

American Analytical Laboratories, LLC.

Date: 19-Jan-18

ELAP ID : 11418

CLIENT: Envirotrac
Lab Order: 1801058
Project: Frost Street, 101 Frost St, Westbury, NY
Lab ID: 1801058-001A

Client Sample ID: Discharge Water
Collection Date: 1/17/2018 1:00:00 PM
Matrix: LIQUID

Certificate of Results

| Analyses | Sample Result | LOD | LOQ | Qual | Units | DF | Date/Time Analyzed |
|--------------------------------|----------------------|------------|------------|-------------|--------------|-------------|---------------------------|
| VOLATILE EPA METHOD 624 | | | | | | | |
| | | | | E624 | | E624 | |
| m,p-Xylene | ND | 0.40 | 4.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| Methyl tert-butyl ether | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |
| o-Xylene | ND | 0.20 | 2.0 | U | µg/L | 1 | 1/18/2018 7:11:00 PM |

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Original

Appendix D
Daily Reports

Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Tuesday, January 2, 2018

- Summit Drilling mobilized to the site to begin sediment removal.
 - Sediment was removed until hard bottom was measured in wells EX-1A and EX-1B as shown below.

| Well | Design | Depth to Bottom | | | |
|-------|--------|--|-----------------------------|----------------------------------|-------------------------------|
| | | After Redevelopment October 2017 | Inspection November 2017 | Prior to Removal January 2018 | After Removal January 2018 |
| EX-1A | 110 | 107.75 | 106.50 | 106.05 | 108.35 |
| EX-1B | 160 | 157.49 | 157.13 | 156.52 | 158.30 |



EX-1B sediment

Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Wednesday, January 3, 2018

- Summit Drilling continued sediment removal.
 - Sediment was removed until hard bottom was measured in wells FSMW-8C, 8D, and 19C as shown below.

| Well | Design | Depth to Bottom | | | |
|----------|--------|--|-----------------------------|----------------------------------|-------------------------------|
| | | After Redevelopment October 2017 | Inspection November 2017 | Prior to Removal January 2018 | After Removal January 2018 |
| FSMW-8C | 182 | Not measured | 177.00 | 177.00 | 183.45 |
| FSMW-8D | 235 | Not measured | 227.25 | 228.90 | 235.90 |
| FSMW-19C | 182 | Not measured | 180.18 | 179.85 | 182.76 |



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Friday, January 12, 2018

Envirotrac mobilized to the site to hang the pumps in the two shallow extraction wells, EX-1A and EX-1B.

Appendix E
Revised Schedule

| ID | Task Name | Duration | Start | Finish | Predecessors | Feb 11, 2018 | Mar 18, 2018 | Apr 22, 2018 | May 27, 2018 | Jul 1, 2018 | Aug 5, 2018 | Sep 9, 2018 | Oct 14, 2018 | Nov 1, 2018 | | | | |
|----|--|----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|---|---|---|---|
| | | | | | | F | S | S | M | T | W | T | F | S | S | M | T | W |
| 1 | 1 Resolution of Pumping Test Scope | 1 day | Thu 3/1/18 | Thu 3/1/18 | | | | | | | | | | | | | | |
| 2 | 2 Post-Construction Performance Monitoring and Optimization | 93 days | Fri 3/2/18 | Tue 7/10/18 | | | | | | | | | | | | | | |
| 3 | 2.1 Field Preparation | 3 wks | Fri 3/2/18 | Thu 3/22/18 | 1 | | | | | | | | | | | | | |
| 4 | 2.2 Temporary System Startup and Testing | 2 days | Fri 3/23/18 | Mon 3/26/18 | 3 | | | | | | | | | | | | | |
| 5 | 2.3 Pumping Test | 7 wks | Tue 3/27/18 | Mon 5/14/18 | 4 | | | | | | | | | | | | | |
| 6 | 2.4 Develop and Submit Letter Report to NYSDEC | 4 wks | Tue 5/15/18 | Mon 6/11/18 | 5 | | | | | | | | | | | | | |
| 7 | 2.5 NYSDEC Review and Approval of Letter Report and Proposed Pumping Rates | 2 wks | Tue 6/12/18 | Mon 6/25/18 | 6 | | | | | | | | | | | | | |
| 8 | 2.6 Procure and Install EX-1C and/or EX-1D Pumps (If Required) | 2 wks | Tue 6/26/18 | Mon 7/9/18 | 7 | | | | | | | | | | | | | |
| 9 | 2.7 Full System Startup | 1 day | Tue 7/10/18 | Tue 7/10/18 | 8 | | | | | | | | | | | | | |
| 10 | 3 Final Engineering Report | 40 days | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 11 | 3.1 Develop FER | 8 wks | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 12 | 3.2 Submit FER to NYSDEC | 0 days | Tue 9/4/18 | Tue 9/4/18 | 11 | | | | | | | | | | | | | |
| 13 | 4 Site Management Plan | 40 days | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 14 | 4.1 Develop SMP | 8 wks | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 15 | 4.2 Submit SMP to NYSDEC | 0 days | Tue 9/4/18 | Tue 9/4/18 | 14 | | | | | | | | | | | | | |
| 16 | 5 Environmental Easement | 40 days | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 17 | 5.1 Develop Environmental Easement | 8 wks | Wed 7/11/18 | Tue 9/4/18 | 9 | | | | | | | | | | | | | |
| 18 | 5.2 Submit Environmental Easement to NYSDEC | 0 days | Tue 9/4/18 | Tue 9/4/18 | 17 | | | | | | | | | | | | | |

Schedule

February 2018

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress